AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the appiication:

LISTING OF CLAIMS:

Claims 1-13 (canceled).

14. (new): A dynamoelectric machine comprising:

a stator winding;

a temperature measuring means disposed in a vicinity of said stator winding in order to estimate stator winding temperature;

a thermally-conductive supporting portion for supporting said temperature measuring means; and

a thermally-conductive body interposed between said stator winding and said supporting portion for conducting heat from said stator winding to said supporting portion,

wherein:

an estimated value of said stator winding temperature is calculated using a sum of a measured temperature measured by said temperature measuring means and a correcting value.

15. (new): The dynamoelectric machine according to Claim 14, wherein:

said supporting portion is constituted by a member that does not generate heat.

16. (new): The dynamoelectric machine according to Claim 14, wherein:

said stator winding and said supporting portion are simultaneously cooled by an identical cooling medium.

17. (new): The dynamoelectric machine according to Claim 14, wherein:

said supporting portion is a separate member from a stator holding said stator winding.

18. (new): The dynamoelectric machine according to Claim 14, wherein:

said correcting value is determined using a function of a physical quantity based on a value of line current flowing through said stator winding.

19. (new): The dynamoelectric machine according to Claim 18, wherein:

said correcting value is determined using a second-order function of said value of said line current.

20. (new): The dynamoelectric machine according to Claim 14, wherein:

said estimated value is corrected by averaging over time.

21. (new): The dynamoelectric machine according to Claim 14, wherein:

said temperature measuring means is a temperature sensor.

22. (new): The dynamoelectric machine according to Claim 14, wherein:

an electric current flowing through said stator winding is suppressed if said estimated value is greater than or equal to a predetermined value.

23. (new): The dynamoelectric machine according to Claim 14, wherein:

an engine driven to rotate by said dynamoelectric machine is stopped if said estimated value is less than or equal to a predetermined value when a vehicle is stopped.

24. (new): The dynamoelectric machine according to Claim 14, wherein:

said supporting portion is disposed on a bracket for supporting a stator having said stator winding.

25. (new): The dynamoelectric machine according to Claim 14, wherein:

said supporting portion is disposed on an outer peripheral surface of a stator core to which said stator winding is mounted.

26. (new): The dynamoelectric machine according to Claim 14, wherein:

said thermally-conductive body is a stator core in which said stator winding is disposed.